1852MNRAS..12..217.

IRENE.

DURHAM. Fraunhofer Equatoreal. (Mr. W. Ellis.)

1852.	Green. M.T. h m s	R.A. h m s	Log $\frac{p}{P}$	N.P.D. ° ′ ″	Log $\frac{q}{P}$	No. of Comps. of R.A.	No. of Comps. of N.P.D.	Set.
Sept. 11	13 18 54·2	23 10 10·07	+8·181	109 45 23·1	−9·9762	12	4	1
13	12 0 59·4	8 28·64	7·514	109 54 40·3	9·9827	18	6	2
16	13 8 36·0	5 51·62	8·243	110 7 47·3	9·9748	18	6	3
17	12 5 6·1	23 5 3·40	+7·873	110 11 35·9	−9·9820	18	6	4

The observations were made with the wire micrometer, and they are corrected for refraction. The corrections for parallax are represented by *p* and *q* as usual; P being the Equat. Hor. Parallax.

Assumed *Mean* Places of the Stars of Comparison, 1852, January 1.

Star.	R.A. h m s	N.P.D. ° ′ ″	Set.	Authority.
Anonymous, 10th mag.	23 5 7·69	110 3 53·6	3, 4	Equat. comps. with Lal. 45800.
Lalande 45610	10 41·14	109 38 59·0	1	Mean of Lalande and 54 of Arg. Zone 262.
— 45800	23 15 57·52	109 55 12·3	2	Mean of Lal. and 61 of Arg. Z. 262.

Remarks.

Set 1. A violent wind, the clock was with great difficulty heard.

— 3 and 4. The assumed place of the star is from six comparisons of R.A. and two comparisons of N.P.D. with Lalande 45800.

The planet was very faint on each night, but appeared brightest on September 17.

MELPOMENE.

OXFORD. Meridian. (Mr. Johnson.)

	Greenwich M.T. h m s	497s·8 × Δ. m s	Appt R.A. h m s	Appt N.P.D. ° ′ ″	Parx in N.P.D. ″
July 7	11 0 28·4	−10 20·5	17 59 39·00	99 2 4·4	−6·0
21	9 53 32·4	−10 33·3	17 47 43·94	100 20 5·4	−5·9

With the Ring Micrometer.

1852.	Greenwich M.T. h m s	497s·8 × Δ. m s	App. R.A. h m s	Par. in R.A. s	App. N.P.D. ° ′ ″	Par. in N.P.D. ″	Comps.
July 3	12 40 55·5	−10 20·5	18 3 36·28	+0·10	98 45 9·0	−5·9	9 with *a*
7	12 43 30·7	10 20·5	17 59 34·86	0·13	99 2 24·5	5·9	12 with *b*
8	12 20 11·9	10 20·8	58 37·20	0·10	7 5·5	5·9	11 with *b* & *c*
9	13 6 1·4	10 21·2	57 37·62	0·16	12 12·8	5·9	7 with *b* & *c*
12	12 5 3·8	10 22·9	54 52·65	0·11	27 25·5	5·9	16 with *c* & *d*
15	12 3 51·6	10 25·5	52 16·05	0·12	44 4·3	5·9	12 with *e*
17	12 32 16·7	10 27·6	50 37·23	0·16	99 55 56·3	5·8	16 with *e*
21	12 26 27·8	10 33·3	47 39·94	0·18	100 20 43·9	5·8	6 with *f*
22	12 8 26·4	10 34·7	47 0·10	0·16	27 5·3	5·8	7 with *f*
23	12 6 31·3	10 36·5	46 21·62	0·16	33 42·2	5·8	13 with *f*
24	12 32 26·4	−10 38·3	17 45 43·51	+0·19	100 40 29·3	−5·7	10 with *g*

1852MNRAS..12..217.

The adopted *Mean* Places of the Comparison Stars for 1852·0 are as follows:—

	R.A. h m s	N.P.D. ° ′ ″
a = Weisse xviii, 61 = 33403 Lalande	18 3 56·22	98 45 32·4
b = Weisse xvii, 1260	17 59 26·89	99 11 28·5
c = Weisse xvii, 1212	17 57 37·30	99 16 6·4
d = Weisse xvii, 1169	17 55 47·05	99 15 1·9
e = B.A.C. 6078 (ν Ophiuchi)	17 50 52·88	99 45 2·4
f = Weisse xvii, 906 = 32665 Lalande	17 45 1·12	100 19 47·6
g = B.A.C. 6049	17 44 50·19	100 51 35·6

The observations are corrected for refraction. Those with the ring micrometer are made by Mr. Norman Pogson.

DURHAM. Fraunhofer Equatoreal. (Mr. W. Ellis.)

1852.	Green. M.T. h m s	R.A. h m s	Log $\frac{p}{P}$	N.P.D. ° ′ ″	Log $\frac{q}{P}$	No. of Comps. of R.A.	No. of Comps. of N.P.D.	Set.
July 3	13 14 56·8	18 3 34·58	+8·268	......	...	4	...	1
4	12 54 15·9	2 34·73	8·209	......	...	9	...	2
5	12 42 3·2	18 1 34·53	8·177	......	...	9	...	3
8	12 6 32·6	17 58 37·58	8·070	......	...	10	...	4
10	12 20 22·1	56 42·47	8·190	99 16 58·7	−9·9485	30	10	5
11	11 27 41·3	55 48·74	7·885	21 58·1	9·9516	18	6	6
12	11 29 6·1	54 53·88	7·942	27 15·0	9·9516	18	6	7
	13 42 26·1	49·32	8·452	27 54·1	9·9383	6	2	8
14	11 34 52·9	53 7·94	8·053	38 18·6	9·9516	4	2	9
17	11 58 43·5	50 37·80	8·241	55 46·3	9·9496	6	6	10
	12 42 8·6	36·28	8·375	99 55 58·6	9·9447	6	6	11
18	11 37 52·5	49 52·08	8·173	100 1 48·5	9·9513	18	6	12
19	10 54 24·6	49 8·19	7·932	7 46·0	9·9541	18	6	13
22	11 45 57·0	47 0·74	8·279	27 5·7	9·9501	18	6	14
23	11 0 43·3	46 23·27	8·097	33 26·4	9·9536	12	4	15
24	10 59 43·9	45 46·30	8·122	100 40 7·9	9·9541	18	6	16
Aug. 3	11 56 10·8	41 19·92	8·443	101 50 44·8	9·9445	15	5	17
4	10 50 48·5	41 4·69	8·288	101 57 47·5	9·9542	12	4	18
5	10 45 33·9	40 51·21	8·284	102 5 4·4	9·9547	18	6	19
7	10 13 8·7	40 30·13	8·190	19 44·0	9·9580	3	1	20
8	11 36 40·1	40 21·83	8·447	27 35·7	9·9455	18	6	21
9	10 30 59·3	40 16·57	8·291	102 34 42·9	9·9558	20	10	22
31	9 39 20·4	46 47·93	8·379	105 18 9·9	9·9574	12	6	23
Sept. 3	9 13 52·4	48 52·35	8·336	105 39 20·1	9·9610	6	2	24
10	9 3 49·4	54 47·67	8·370	106 26 46·9	9·9604	10	5	25
11	9 16 29·8	55 45·70	8·409	33 18·7	9·9573	8	4	26
13	8 50 15·8	17 57 45·14	8·359	106 46 1·5	9·9619	18	6	27
17	9 30 8·4	18 2 5·71	+8·473	(107 11 6·1)	−9·9507	18	3	28

The observations are corrected for refraction.

The corrections for parallax in time and arc which are to be applied to the

1852MNRAS..12..217.

R.A. and N.P.D. are represented by *p* and *q* respectively. P = Equatoreal Horizontal Parallax.

On July 3, 4, 5, and 8, the observations were made with the ring micrometer. As it was found that the N.P.D.'s deduced from these observations were not at all satisfactory, they have been omitted from the above table; the results for R.A. however, appeared to be worth retaining. From July 10 the observations were made with the wire micrometer.

Assumed *Mean* Places of the Stars of Comparison, 1852, January 1.

Star.	R.A.			N.P.D.			Set.	Authority.
	h	m	s	°	′	″		
Lalande 32525	17	41	36·82	102	33	29·28	22	Equat. comps. with Weisse XVII. 887, and *o* Serpentis.
Weisse XVII, 834		42	6·52		6	45·65	18, 19	Weisse's Catalogue.
— XVII, 887		44	39·66	102	21	48·61	20, 21	— —
B.A.C. 6049		44	50·26	100	51	34·20	16	Mean of B.A. and Weisse's Cat.
Weisse XVII, 906		45	0·85	100	19	52·23	14, 15	Weisse's Catalogue.
B.A.C. 6065		47	48·23	105	46	57·13	24	B.A. Catalogue.
Weisse XVII, 966		47	51·19	105	9	12·08	23	Weisse's Catalogue.
— XVII, 980		48	16·70	100	9	38·07	12, 13	— —
— XVII, 1029		50	24·10	101	51	15·81	17	— —
ν Ophiuchi		50	52·83	99	45	3·48	9, 10, 11	Greenwich 12-year Catalogue.
Weisse XVII, 1169		55	47·06	99	15	1·75	7	Weisse's Catalogue.
— XVII, 1212		57	37·31	99	16	6·23	4, 5, 6	— —
Lalande 33178		58	39·31	106	39	59·00	27	Mean of Lalande and No. 5 of Arg. Zone 230.
No. 37 of Arg. Zone 218		59	13·44	107	10	8·95	28	Mean of No. 37 of Arg. Zone 218 and No. 2 of Zone 225.
Lalande 33222	17	59	55·56	106	25	53·06	25, 26	Mean of Lal. No. 3 of Arg. Zone 225 and No. 8 of Zone 230.
Weisse XVIII, 7	18	1	36·58		......		2, 3	Weisse's Catalogue
— XVIII, 51		3	38·83	99	34	28·62	8	— —
— XVIII, 61	18	3	56·16		......		1	— —

Remarks.

Set 1, 9, 13, 18, 21, and 24. The observations were unfavourably taken on account of clouds.

— 8. No more comparisons could be taken with this star, as the planet could not be seen any longer.

— 10 and 11. The star very inconveniently situated for observation.

— 15. Observed with difficulty on account of clouds; the wind also continually put the telescope into a state of vibration. No star was to be had nearer in N.P.D. to the planet.

— 16. No star was to be had nearer in N.P.D. to the planet.

— 17. Fine night; the planet was very near to a small star, causing some uncertainty in the observation.

— 20. One set of comparisons only, obtained between clouds.

— 22. Lalande's place of the star is not taken; the assumed place depends entirely on equatoreal comparisons with Weisse's Bessel XVII, 887 and *o Serpentis*, being the mean of six comparisons of R.A. and two comparisons of N.P.D. with each star.

— 23. Fine night, but the wind troublesome.

— 26. High wind; the hearing tube used.

— 27. Foggy; the planet extremely faint.

— 28. The N.P.D. measures are bad, the planet was so faint; the resulting N.P.D. must only be considered as approximate.

1852MNRAS..12..217.

WESTPHAL'S COMET. II. 1852.

HAMBURG. (M. C. Rümker.)

1852.	Hamburg M.T.	R.A.	L. Fact. Parx.	Decl.	L. Fact. Parx.	Comps.	Comp Stars
	h m s	° ′ ″		° ′ ″			
Nov. 4	9 31 47·5	210 23 29	9·8519	+70 46 31·0	9·8924	2	*a b c*
6	9 46 12·3	210 38 37	9·7293	+70 7 15·7	9·9059	3	*d e f*

Apparent Places of Compared Stars.

	R.A.	Decl.		R.A.	Decl.
	h m s	° ′ ″		h m s	° ′ ″
a	13 59 6·06	+71 2 41·5	*d*	14 6 36·40	+70 17 9·4
b	14 0 28·19	70 59 36·2	*e*	14 7 36·24	70 3 8·3
c	14 0 42·41	+70 43 58·8	*f*	14 7 16·67	+70 7 31·9

In vol. xii. p. 93, Mr. Edward Hill is mentioned "as the inventor of the envelope machine:" the machine referred to being that which was exhibited last year by Messrs. Thomas De la Rue and Co. The Editor is informed by MM. Edwin Hill and Warren De la Rue that this machine is their *joint* invention, and that they are *joint* patentees.

ERRATA

Vol. xi. page 52, line 5 from the bottom, *for* "inner axis," *read* "minor axis."

Vol. xii. page 50, line 11, *read* its north end highest, about 1′ high. The other two were, &c.

— — 61, line 19, *read* lat. 57° 42′ 58″ N., long. $0^h\ 47^m\ 45^s{\cdot}3$ E.

— — 62, line 25, *for* group of spots 1′, *read* 1½′.

— — —, lines 27, 28, 29, *for* $3^h\ 8^m$, *read* $3^h\ 58^m$.

In the early copies, vol. xii. No. 3 (*Solar Eclipse*),

Page 43, line 19, *for* Colonel Silverstopfe, *read* Silverstolpe.

— 45, last line, *for* 70°, *read* 45°.

— 46, line 1, *for* 100°, *read* 80°.

— — — 2, *for* 145°, *read* 110°.

— 47, — 34, *for* RINGERIGEL, *read* RINGERIDET.

— 49, — 29, 31, *for* JUNE, *read* TUNE.

— 64, — 42, *for* $3^h\ 56^m\ 54^s{\cdot}9$, *read* $3^h\ 55^m\ 54^s{\cdot}9$.

— 66, — 18, *for* RAVELSBERG, *read* RÆVELSBERG.

— 67, 2d line from bottom, *for* 22 inches, *read* 20 inches.

— 72, line 30, *for* Colonel Silverstopfe, *read* Silverstolpe.

In plate, *for* 11, *read* 14.

These last-mentioned errata were corrected in the copies distinguished by an asterisk affixed to the Number, No. 3.*

Vol. xii. page 152, line 4 from the bottom, *for* 18″·61, *read* 28″·61.

London:—Printed by G. BARCLAY, Castle St. Leicester Sq.